

WEST Search History

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DATE: Wednesday, February 15, 2006

Hide?	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L81	L80 and ((fixed or variable or tun\$4) with (capacit\$4))	1
<input type="checkbox"/>	L80	L79 and ((base or ring or loop or winding or coil or annulus ar annular\$2 or bottom or support) with (segment\$4 or portion or section\$4 or division))	3
<input type="checkbox"/>	L79	L78 and ("end\$3" or terminat\$4)	3
<input type="checkbox"/>	L78	L77 and (symmetric\$4 or symmetr\$4 or mirror\$4)	39
<input type="checkbox"/>	L77	L76 and (((plurality or "multi" or "more than one" or second or additional or another or first or primary or secondary) with (mode or modal\$2)) with (RF or radiofrequency or radio-frequency or "radio frequency" or coil or winding))	53
<input type="checkbox"/>	L76	L75 and (arc\$4 or arcuate or (radially with (bent or bending)))	567
<input type="checkbox"/>	L75	L74 and (mode or modal\$2)	3870
<input type="checkbox"/>	L74	L73 and ((magnetic adj resonan\$2) or MRI or NMR)	12192
<input type="checkbox"/>	L73	((324/300-322.ccls.) or (335/296-306.ccls.) or (600/407-435.ccls.) or (382/128-131.ccls.))	22875
<input type="checkbox"/>	L72	L71 and ("end\$3" or terminat\$4)	1
<input type="checkbox"/>	L71	L68 and (symmetric\$4 or symmetr\$4 or mirror\$4)	5
<input type="checkbox"/>	L70	L69 and (symmetric\$4 or symmetr\$4 or mirror\$4)	0
<input type="checkbox"/>	L69	L68 not l66	1
<input type="checkbox"/>	L68	L60 and ((direct\$2 or immediat\$4 or (short with circuit\$4)) with (contact\$4 or connect\$4 or link\$4 or join\$4 or bridg\$4))	9
<input type="checkbox"/>	L67	L66 and (symmetric\$4 or symmetr\$4 or mirror\$4)	5
<input type="checkbox"/>	L66	L65 and ((direct\$2 or immediat\$4 or (short with circuit\$4)) with (contact\$4 or connect\$4 or link\$4 or join\$4 or bridg\$4))	8
<input type="checkbox"/>	L65	L60 and ((resonan\$2) with (tun\$4 or adjust\$4 or chang\$4 or variable or vary\$3 or alter\$4))	20
<input type="checkbox"/>	L64	L60 and (microstrip\$4 or micro-strip\$4 or "micro strip\$4")	1
<input type="checkbox"/>	L63	L60 and (microsrtrip\$4 or micro-strip\$4 or "micro strip\$4")	0
<input type="checkbox"/>	L62	L61 and (symmetric\$4 or symmetr\$4 or mirror\$4)	1
<input type="checkbox"/>	L61	L60 and ("end\$3" or terminat\$4)	4
<input type="checkbox"/>	L60	L59 and (contact\$4 or connect\$4 or link\$4 or join\$4 or bridg\$4)	27
<input type="checkbox"/>	L59	L58 and (conduct\$4 or rod)	27
<input type="checkbox"/>	L58	L57 and (((plurality or "multi" or "more than one" or second or additional or another or first or primary or secondary) with (mode or modal\$2)) with (radiofrequency or radio-frequency or "radio frequency" or RF or winding or	27

	coil))	
<input type="checkbox"/>	L57 L56 and ((fixed or variable or tun\$4) with (capacit\$4))	60
<input type="checkbox"/>	L56 L55 and ((base or ring or loop or winding or coil or annulus ar annular\$2 or bottom or support) with (segment\$4 or portion or section\$4 or division))	458
<input type="checkbox"/>	L55 L54 and (segment\$4 or portion or section\$4 or division)	775
<input type="checkbox"/>	L54 L53 and ((plurality or "multi" or "more than one" or second or additional or another or first or primary or secondary) with (mode or modal\$2))	786
<input type="checkbox"/>	L53 L52 and (capacit\$4)	4798
<input type="checkbox"/>	L52 L2 and (arc\$4 or arcuate or (radially with (bent or bending)))	12540
<input type="checkbox"/>	L51 L50 and (((plurality or "multi" or "more than one" or second or additional or another or first or primary or secondary) with (mode or modal\$2)) with (RF or radiofrequency or radio-frequency or "radio frequency" or coil or winding))	25
<input type="checkbox"/>	L50 L49 and ((capacit\$4) with (segment\$4 or portion or section\$4))	157
<input type="checkbox"/>	L49 L48 and (capacit\$4)	420
<input type="checkbox"/>	L48 L47 and (arc\$3 or arcuate or (radially with (bent or bending or bend\$4)))	583
<input type="checkbox"/>	L47 L46 and ((plurality or "multi" or "more than one" or second or additional or another or first or primary or secondary) with (mode or modal\$2))	1988
<input type="checkbox"/>	L46 L45 and ((base or ring or loop or winding or coil or annulus ar annular\$2 or bottom or support) with (segment\$4 or portion or section\$4))	13663
<input type="checkbox"/>	L45 L44 and (segment\$4 or portion or section\$4)	47476
<input type="checkbox"/>	L44 L2 and (base or ring or loop or winding or coil or annulus ar annular\$2 or bottom or support)	58456
<input type="checkbox"/>	L43 (4769605 5144241 5144243 5302901 5708361 5973495)! [pn]	12
<input type="checkbox"/>	L42 6348794	5
<input type="checkbox"/>	L41 5602557	21
<input type="checkbox"/>	L40 (2267613 2774967 2830212 3771055 3783419 3919678 3953789 4320342 4339718 4398149 4439733 4506224 4573015)! [pn]	38
<input type="checkbox"/>	L39 L38 and ((plurality or "multi" or "more than one" or second or additional or another or first or primary or secondary) with (mode or modal\$2))	15
<input type="checkbox"/>	L38 L37 and L1	148
<input type="checkbox"/>	L37 hayes.in.	9540
<input type="checkbox"/>	L36 5144241	19
<input type="checkbox"/>	L35 5411241	3
<input type="checkbox"/>	L34 L33 and (arc or arcuate or (radially with (bent or bending)) or (surround\$4 with (breast or nipple)))	13
<input type="checkbox"/>	L33 L32 and (breast or nipple or mammary or mamagram or mamography)	32
<input type="checkbox"/>	L32 L29 and (breast or nipple)	32
<input type="checkbox"/>	L31 L30 and (breast or nipple)	6
<input type="checkbox"/>	L30 L29 and (arc or arcuate or (radially with (bent or bending)))	48
<input type="checkbox"/>	L29 L28 and (base or ring or loop or winding or coil or annulus ar annular\$2 or bottom or support)	263

<input type="checkbox"/>	L28	L27 and (de-tun\$4 or detun\$4 or decoupl\$4 or de-coupl\$4)	263
<input type="checkbox"/>	L27	L25 and (current)	754
<input type="checkbox"/>	L26	L25 or (current)	3031127
<input type="checkbox"/>	L25	L24 and (diode or switch\$4 or impedance or induct\$4 or PIN)	852
<input type="checkbox"/>	L24	L23 and (capacit\$4)	964
<input type="checkbox"/>	L23	L22 and (conduct\$4 or rod)	1761
<input type="checkbox"/>	L22	L21 and (phase or phasor or phas\$3 or rotat\$4)	2756
<input type="checkbox"/>	L21	L20 and (quadrature)	2986
<input type="checkbox"/>	L20	L19 and (channel\$4 or line or port)	60918
<input type="checkbox"/>	L19	L1 and (mode or modal\$2 or configuration or arrangement)	100389
<input type="checkbox"/>	L18	L15 and (PIN)	2
<input type="checkbox"/>	L17	L9 and (breast or nipple)	7
<input type="checkbox"/>	L16	L11 and (breast or nipple)	5
<input type="checkbox"/>	L15	L14 and (breast or nipple)	4
<input type="checkbox"/>	L14	L13 and ((plurality or "multi" or "more than one" or second or additional or another or first or primary or secondary) with (amplifier or amplifying or amplified or amplification or match\$4 or reactance or interfac\$3 or inter-fac\$3))	12
<input type="checkbox"/>	L13	L12 and ((plurality or "multi" or "more than one" or second or additional or another or first or primary or secondary) with (channel\$4 or line))	17
<input type="checkbox"/>	L12	L11 and ((plurality or "multi" or "more than one" or second or additional or another or first or primary or secondary) with (mode or modal\$2))	31
<input type="checkbox"/>	L11	L10 and (amplifier or amplifying or amplified or amplification or match\$4 or reactance or interfac\$3 or inter-fac\$3)	43
<input type="checkbox"/>	L10	L9 and (channel\$4 or line)	46
<input type="checkbox"/>	L9	L8 and (de-tun\$4 or detun\$4 or decoupl\$4 or de-coupl\$4)	46
<input type="checkbox"/>	L8	L7 and (diode or switch\$4 or impedance or induct\$4)	121
<input type="checkbox"/>	L7	L6 and (capacit\$4)	127
<input type="checkbox"/>	L6	L5 and (conduct\$4 or rod)	194
<input type="checkbox"/>	L5	L4 and (arc or arcuate or (radially with (bent or bending)))	260
<input type="checkbox"/>	L4	L3 and (phase or phasor or phas\$3)	2303
<input type="checkbox"/>	L3	L2 and (quadrature)	2608
<input type="checkbox"/>	L2	L1 and (mode or modal\$2)	61624
<input type="checkbox"/>	L1	((magnetic adj resonance) or MRI or NMR)	220535

END OF SEARCH HISTORY

Hit List

First Hit

Search Results - Record(s) 1 through 27 of 27 returned.

☐ 1. Document ID: US 20060012369 A1

Using default format because multiple data bases are involved.

L60: Entry 1 of 27

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012369

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012369 A1

TITLE: Radiofrequency magnetic field resonator and a method of designing the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Neufeld; Arnon	Tel Aviv		IL
Levin; Menahem	Ramat Gan		IL
Navon; Gil	Ramat-Gan		IL

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NMC	Drawings
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☐ 2. Document ID: US 20050162168 A1

L60: Entry 2 of 27

File: PGPB

Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050162168

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050162168 A1

TITLE: Multi-modal RF coil for magnetic resonance imaging

PUBLICATION-DATE: July 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ludwig, Reinhold	Paxton	MA	US
Bogdanov, Gene	Manchester	CT	US
Obi, Aghogho	Worcester	MA	US

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NMC	Drawings
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☐ 3. Document ID: US 20040251903 A1

L60: Entry 3 of 27

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040251903
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040251903 A1

TITLE: NMR measurement method and NMR apparatus

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hasegawa, Kenichi	Akishima		JP
Mizuno, Kentarou	Hino		JP
Anai, Takahiro	Ome		JP

US-CL-CURRENT: 324/321; 324/309, 324/315

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NMC	Drawings
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☐ 4. Document ID: US 20030071622 A1

L60: Entry 4 of 27

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030071622
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030071622 A1

TITLE: Coil Structure with tapered conductive members for improved homogeneity in MRI

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Reisker, Theodore J.	Wexford	PA	US
Monski, William J.	Sewickley	PA	US
Reid, Eric D.	Farmington	PA	US
Misic, George J.	Allison Park	PA	US

US-CL-CURRENT: 324/318; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NMC	Drawings
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☐ 5. Document ID: US 6831460 B2

L60: Entry 5 of 27

File: USPT

Dec 14, 2004

US-PAT-NO: 6831460

DOCUMENT-IDENTIFIER: US 6831460 B2

TITLE: Coil structure with tapered conductive members for improved homogeneity in MRI

DATE-ISSUED: December 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reisker; Theodore J.	Wexford	PA	15090	
Monski; William J.	Sewickley	PA	15143	
Reid; Eric D.	Farmington	PA	15437	
Misic; George J.	Allison Park	PA	15101	

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	ABC	Draw. G.
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☐ 6. Document ID: US 6373248 B1

L60: Entry 6 of 27

File: USPT

Apr 16, 2002

US-PAT-NO: 6373248

DOCUMENT-IDENTIFIER: US 6373248 B1

TITLE: Nuclear magnetic resonance logging with azimuthal resolution

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Poitzsch; Martin E.	Sugar Land	TX		
Speier; Peter	Stafford	TX		
Ganesan; Krishnamurthy	Sugar Land	TX		
Chang; Shu-Kong	Sugar Land	TX		
Goswami; Jaideva C.	Houston	TX		

US-CL-CURRENT: 324/303; 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	ABC	Draw. G.
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☐ 7. Document ID: US 6366089 B1

L60: Entry 7 of 27

File: USPT

Apr 2, 2002

US-PAT-NO: 6366089
DOCUMENT-IDENTIFIER: US 6366089 B1

TITLE: Nuclear magnetic resonance logging with azimuthal resolution

DATE-ISSUED: April 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Poitzsch; Martin E.	Sugar Land	TX		
Speier; Peter	Stafford	TX		
Ganesan; Krishnamurthy	Sugar Land	TX		
Chang; Shu-Kong	Sugar Land	TX		
Goswami; Jaideva C.	Houston	TX		

US-CL-CURRENT: 324/303; 324/300, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D.
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☐ 8. Document ID: US 6344745 B1

L60: Entry 8 of 27

File: USPT

Feb 5, 2002

US-PAT-NO: 6344745
DOCUMENT-IDENTIFIER: US 6344745 B1
**** See image for Certificate of Correction ****

TITLE: Tapered birdcage resonator for improved homogeneity in MRI

DATE-ISSUED: February 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reisker; Theodore J.	Wexford	PA		
Monski; William J.	Sewickley	PA		
Reid; Eric D.	Farmington	PA		
Misic; George J.	Allison Park	PA		

US-CL-CURRENT: 324/318; 600/421

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D.
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☐ 9. Document ID: US 6285189 B1

L60: Entry 9 of 27

File: USPT

Sep 4, 2001

US-PAT-NO: 6285189
DOCUMENT-IDENTIFIER: US 6285189 B1

TITLE: Millipede coils

DATE-ISSUED: September 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Wai Ha	San Jose	CA		

US-CL-CURRENT: 324/318; 324/321, 335/299, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMC	Draw D
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☐ 10. Document ID: US 6255817 B1

L60: Entry 10 of 27

File: USPT

Jul 3, 2001

US-PAT-NO: 6255817

DOCUMENT-IDENTIFIER: US 6255817 B1

TITLE: Nuclear magnetic resonance logging with azimuthal resolution

DATE-ISSUED: July 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Poitzsch; Martin E.	Sugar Land	TX		
Speier; Peter	Stafford	TX		
Ganesan; Krishnamurthy	Sugar Land	TX		
Chang; Shu-Kong	Sugar Land	TX		
Goswami; Jaideva C.	Houston	TX		

US-CL-CURRENT: 324/303; 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMC	Draw D
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☐ 11. Document ID: US 6177797 B1

L60: Entry 11 of 27

File: USPT

Jan 23, 2001

US-PAT-NO: 6177797

DOCUMENT-IDENTIFIER: US 6177797 B1

TITLE: Radio-frequency coil and method for resonance/imaging analysis

DATE-ISSUED: January 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Srinivasan; Ravi	Richmond Heights	OH		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INVC	Draw D
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☐ 12. Document ID: US 6029082 A

L60: Entry 12 of 27

File: USPT

Feb 22, 2000

US-PAT-NO: 6029082

DOCUMENT-IDENTIFIER: US 6029082 A

TITLE: Less-claustrophobic, quadrature, radio-frequency head coil for nuclear
magnetic resonance

DATE-ISSUED: February 22, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Srinivasan; Ravi	Richmond Heights	OH		
Liu; Haiying	Minneapolis	MN		
Elek; Robert A.	Chardon	OH		

US-CL-CURRENT: 600/422; 324/318, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INVC	Draw D
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☐ 13. Document ID: US 5680047 A

L60: Entry 13 of 27

File: USPT

Oct 21, 1997

US-PAT-NO: 5680047

DOCUMENT-IDENTIFIER: US 5680047 A

TITLE: Multipl-tuned radio frequency coil for simultaneous magnetic resonance
imaging and spectroscopy

DATE-ISSUED: October 21, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Srinivasan; Ravi	Richmond Hts	OH		
Liu; Haiying	Euclid	OH		
Elek; Robert A.	Chardon	OH		

US-CL-CURRENT: 324/318; 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INVC	Draw D
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☐ 14. Document ID: US 5664568 A

L60: Entry 14 of 27

File: USPT

Sep 9, 1997

US-PAT-NO: 5664568
DOCUMENT-IDENTIFIER: US 5664568 A

TITLE: Split-top, neck and head vascular array for magnetic resonance imaging

DATE-ISSUED: September 9, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Srinivasan; Ravi	Richmond Hts.	OH		
Henderson; Robert G.	Wickliffe	OH		
Elek; Robert A.	Chardon	OH		

US-CL-CURRENT: 600/422; 324/318, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 15. Document ID: US 5602479 A

L60: Entry 15 of 27

File: USPT

Feb 11, 1997

US-PAT-NO: 5602479
DOCUMENT-IDENTIFIER: US 5602479 A

TITLE: Quadrature radio frequency coil for magnetic resonance imaging

DATE-ISSUED: February 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Srinivasan; Ravi	Richmond Hts.	OH		
Liu; Haiying	Euclid	OH		
Elek; Robert A.	Chardon	OH		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 16. Document ID: US 5578925 A

L60: Entry 16 of 27

File: USPT

Nov 26, 1996

US-PAT-NO: 5578925
DOCUMENT-IDENTIFIER: US 5578925 A

TITLE: Vertical field quadrature phased array coil system

DATE-ISSUED: November 26, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Molyneaux; David A.	Mentor	OH		
Braum; William O.	Solon	OH		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Know	Draw D
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☐ 17. Document ID: US 5565779 A

L60: Entry 17 of 27

File: USPT

Oct 15, 1996

US-PAT-NO: 5565779

DOCUMENT-IDENTIFIER: US 5565779 A

TITLE: MRI front end apparatus and method of operation

DATE-ISSUED: October 15, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arakawa; Mitsuaki	Hillsborough	CA		
Chang; Hsu	Fremont	CA		
Van Heteren; John	San Francisco	CA		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Know	Draw D
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☐ 18. Document ID: US 5461314 A

L60: Entry 18 of 27

File: USPT

Oct 24, 1995

US-PAT-NO: 5461314

DOCUMENT-IDENTIFIER: US 5461314 A

TITLE: MRI front end apparatus and method of operation

DATE-ISSUED: October 24, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arakawa; Mitsuaki	Hillsborough	CA		
Chang; Hsu	Fremont	CA		
Van Heteren; John	San Francisco	CA		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Know	Draw D
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☐ 19. Document ID: US 5445153 A

L60: Entry 19 of 27

File: USPT

Aug 29, 1995

US-PAT-NO: 5445153

DOCUMENT-IDENTIFIER: US 5445153 A

TITLE: Orthogonal RF coil for MRI apparatus

DATE-ISSUED: August 29, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sugie; Masami	Kusatsu			JP
Asako; Hirofumi	Kyoto			JP

US-CL-CURRENT: 600/422; 324/318, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Dg
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☐ 20. Document ID: US 5422578 A

L60: Entry 20 of 27

File: USPT

Jun 6, 1995

US-PAT-NO: 5422578

DOCUMENT-IDENTIFIER: US 5422578 A

TITLE: Magnetic resonance probehead

DATE-ISSUED: June 6, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hoegler; Miro	Karlsruhe			DE

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Dg
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☐ 21. Document ID: US 5216368 A

L60: Entry 21 of 27

File: USPT

Jun 1, 1993

US-PAT-NO: 5216368

DOCUMENT-IDENTIFIER: US 5216368 A

TITLE: Quadrature coil system

DATE-ISSUED: June 1, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leussler; Gunther C.	Hamburg			DE

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw. 02
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☐ 22. Document ID: US 5144240 A

L60: Entry 22 of 27

File: USPT

Sep 1, 1992

US-PAT-NO: 5144240

DOCUMENT-IDENTIFIER: US 5144240 A

TITLE: NMR spectroscopy and imaging coil

DATE-ISSUED: September 1, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mehdizadeh; Mehrdad	Wilmington	DE		
Lampman; David A.	Lakewood	OH		
Orlando; Paul T.	Mentor	OH		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw. 02
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☐ 23. Document ID: US 4987370 A

L60: Entry 23 of 27

File: USPT

Jan 22, 1991

US-PAT-NO: 4987370

DOCUMENT-IDENTIFIER: US 4987370 A

TITLE: Rf quadrature coil system for an MRI apparatus

DATE-ISSUED: January 22, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leussler; Christoph G.	Hamburg			DE
Wilchern; Andreas H. W.	Hamburg			DE

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw. 02
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☐ 24. Document ID: US 4680548 A

L60: Entry 24 of 27

File: USPT

Jul 14, 1987

US-PAT-NO: 4680548

DOCUMENT-IDENTIFIER: US 4680548 A

**** See image for Certificate of Correction ****TITLE: Radio frequency field coil for NMR

DATE-ISSUED: July 14, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edelstein; William A.	Schenectady	NY		
Schenck; John F.	Schenectady	NY		
Mueller; Otward M.	Ballston Lake	NY		
Hayes; Cecil E.	Wauwatosa	WI		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMC	Draw. D.
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☐ 25. Document ID: US 4620155 A

L60: Entry 25 of 27

File: USPT

Oct 28, 1986

US-PAT-NO: 4620155

DOCUMENT-IDENTIFIER: US 4620155 A

TITLE: Nuclear magnetic resonance imaging antenna subsystem having a plurality of non-orthogonal surface coils

DATE-ISSUED: October 28, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edelstein; William A.	Schenectady	NY		

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMC	Draw. D.
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☐ 26. Document ID: JP 02036844 A

L60: Entry 26 of 27

File: JPAB

Feb 6, 1990

PUB-NO: JP402036844A

DOCUMENT-IDENTIFIER: JP 02036844 A

TITLE: RF ORTHOGONAL COIL SYSTEM FOR MRI APPARATUS

PUBN-DATE: February 6, 1990

INVENTOR-INFORMATION:

NAME

COUNTRY

LEUSSLER, CHRISTOPH G

WILCHERN, ANDREAS

US-CL-CURRENT: 73/579

INT-CL (IPC): A61B 5/055; G01R 33/30

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INOC	Draw D.
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☐ 27. Document ID: US 3229041 A

L60: Entry 27 of 27

File: USOC

Jan 11, 1966

US-PAT-NO: 3229041

DOCUMENT-IDENTIFIER: US 3229041 A

TITLE: Voice-frequency signal receivers as used in telephone systems

DATE-ISSUED: January 11, 1966

INVENTOR-NAME: BERNARD DRAKE; KEITH HICKS DONALD

US-CL-CURRENT: 379/351, 327/327, 379/283

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INOC	Draw D.
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
CONTACT\$4	0
CONTACT	4321370
CONTACTA	700
CONTACTAAD	1
CONTACTAB	8
CONTACTABEL	1
CONTACTABFE	1
CONTACTABIC	2
CONTACTABIE	7
CONTACTABL	15
CONTACTABLA	2
(L59 AND (CONTACT\$4 OR CONNECT\$4 OR LINK\$4 OR	

JOIN\$4 OR BRIDG\$4)) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	27
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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20050162168 A1

Using default format because multiple data bases are involved.

L61: Entry 1 of 4

File: PGPB

Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050162168

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050162168 A1

TITLE: Multi-modal RF coil for magnetic resonance imaging

PUBLICATION-DATE: July 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ludwig, Reinhold	Paxton	MA	US
Bogdanov, Gene	Manchester	CT	US
Obi, Aghogho	Worcester	MA	US

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WMC	Draw. Cl.
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☐ 2. Document ID: US 5565779 A

L61: Entry 2 of 4

File: USPT

Oct 15, 1996

US-PAT-NO: 5565779

DOCUMENT-IDENTIFIER: US 5565779 A

TITLE: MRI front end apparatus and method of operation

DATE-ISSUED: October 15, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arakawa; Mitsuaki	Hillsborough	CA		
Chang; Hsu	Fremont	CA		
Van Heteren; John	San Francisco	CA		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INMC	Drawings
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☐ 3. Document ID: US 5461314 A

L61: Entry 3 of 4

File: USPT

Oct 24, 1995

US-PAT-NO: 5461314

DOCUMENT-IDENTIFIER: US 5461314 A

TITLE: MRI front end apparatus and method of operation

DATE-ISSUED: October 24, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arakawa; Mitsuaki	Hillsborough	CA		
Chang; Hsu	Fremont	CA		
Van Heteren; John	San Francisco	CA		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INMC	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

☐ 4. Document ID: US 3229041 A

L61: Entry 4 of 4

File: USOC

Jan 11, 1966

US-PAT-NO: 3229041

DOCUMENT-IDENTIFIER: US 3229041 A

TITLE: Voice-frequency signal receivers as used in telephone systems

DATE-ISSUED: January 11, 1966

INVENTOR-NAME: BERNARD DRAKE; KEITH HICKS DONALD

US-CL-CURRENT: 379/351, 327/327, 379/283

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INMC	Drawings
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
END3	1137
END3S	2
TERMINAT\$4	0

TERMINAT	11538
TERMINATA	33
TERMINATABLE	78
TERMINATABLY	1
TERMINATAC	1
TERMINATAD	2
TERMINATAE	2
TERMINATAED	2
(L60 AND ("END\$3" OR TERMINAT\$4)) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20050162168 A1

Using default format because multiple data bases are involved.

L62: Entry 1 of 1

File: PGPB

Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050162168

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050162168 A1

TITLE: Multi-modal RF coil for magnetic resonance imaging

PUBLICATION-DATE: July 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ludwig, Reinhold	Paxton	MA	US
Bogdanov, Gene	Manchester	CT	US
Obi, Aghogho	Worcester	MA	US

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIG	Draw D
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[Fwd Refs](#)
[Bkwd Refs](#)
[Generate OACS](#)

Term	Documents
SYMMETRIC\$4	0
SYMMETRIC	117586
SYMMETRICA	506
SYMMETRICA A	1
SYMMETRICAAL	1
SYMMETRICAALY	1
SYMMETRICALB	2
SYMMETRICALBY	115
SYMMETRICALD	3
SYMMETRICALDLY	2

SYMMETRICADY	51
(L61 AND (SYMMETRIC\$4 OR SYMMETR\$4 OR MIRROR\$4)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 20060012369 A1

Using default format because multiple data bases are involved.

L66: Entry 1 of 8

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012369

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012369 A1

TITLE: Radiofrequency magnetic field resonator and a method of designing the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Neufeld; Arnon	Tel Aviv		IL
Levin; Menahem	Ramat Gan		IL
Navon; Gil	Ramat-Gan		IL

US-CL-CURRENT: [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw D.
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☐ 2. Document ID: US 20050162168 A1

L66: Entry 2 of 8

File: PGPB

Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050162168

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050162168 A1

TITLE: Multi-modal RF coil for magnetic resonance imaging

PUBLICATION-DATE: July 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ludwig, Reinhold	Paxton	MA	US
Bogdanov, Gene	Manchester	CT	US
Obi, Aghogho	Worcester	MA	US

US-CL-CURRENT: [324/322](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PMC	Drawings
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☐ 3. Document ID: US 6285189 B1

L66: Entry 3 of 8

File: USPT

Sep 4, 2001

US-PAT-NO: 6285189

DOCUMENT-IDENTIFIER: US 6285189 B1

TITLE: Millipede coils

DATE-ISSUED: September 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Wai Ha	San Jose	CA		

US-CL-CURRENT: 324/318; 324/321, 335/299, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PMC	Drawings
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☐ 4. Document ID: US 5565779 A

L66: Entry 4 of 8

File: USPT

Oct 15, 1996

US-PAT-NO: 5565779

DOCUMENT-IDENTIFIER: US 5565779 A

TITLE: MRI front end apparatus and method of operation

DATE-ISSUED: October 15, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arakawa; Mitsuaki	Hillsborough	CA		
Chang; Hsu	Fremont	CA		
Van Heteren; John	San Francisco	CA		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PMC	Drawings
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☐ 5. Document ID: US 5461314 A

L66: Entry 5 of 8

File: USPT

Oct 24, 1995

US-PAT-NO: 5461314

DOCUMENT-IDENTIFIER: US 5461314 A

TITLE: MRI front end apparatus and method of operation

DATE-ISSUED: October 24, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arakawa; Mitsuaki	Hillsborough	CA		
Chang; Hsu	Fremont	CA		
Van Heteren; John	San Francisco	CA		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MM	Draw D
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☐ 6. Document ID: US 5445153 A

L66: Entry 6 of 8

File: USPT

Aug 29, 1995

US-PAT-NO: 5445153

DOCUMENT-IDENTIFIER: US 5445153 A

TITLE: Orthogonal RF coil for MRI apparatus

DATE-ISSUED: August 29, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sugie; Masami	Kusatsu			JP
Asako; Hirofumi	Kyoto			JP

US-CL-CURRENT: 600/422; 324/318, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MM	Draw D
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☐ 7. Document ID: US 5422578 A

L66: Entry 7 of 8

File: USPT

Jun 6, 1995

US-PAT-NO: 5422578

DOCUMENT-IDENTIFIER: US 5422578 A

TITLE: Magnetic resonance probehead

DATE-ISSUED: June 6, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hoegler; Miro	Karlsruhe			DE

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	AMC	Draw D
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☐ 8. Document ID: US 5144240 A

L66: Entry 8 of 8

File: USPT

Sep 1, 1992

US-PAT-NO: 5144240

DOCUMENT-IDENTIFIER: US 5144240 A

TITLE: NMR spectroscopy and imaging coil

DATE-ISSUED: September 1, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mehdizadeh; Mehrdad	Wilmington	DE		
Lampman; David A.	Lakewood	OH		
Orlando; Paul T.	Mentor	OH		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference		
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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20060012369 A1

Using default format because multiple data bases are involved.

L67: Entry 1 of 5

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060012369

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060012369 A1

TITLE: Radiofrequency magnetic field resonator and a method of designing the same

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Neufeld; Arnon	Tel Aviv		IL
Levin; Menahem	Ramat Gan		IL
Navon; Gil	Ramat-Gan		IL

US-CL-CURRENT: [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw D.
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☐ 2. Document ID: US 20050162168 A1

L67: Entry 2 of 5

File: PGPB

Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050162168

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050162168 A1

TITLE: Multi-modal RF coil for magnetic resonance imaging

PUBLICATION-DATE: July 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ludwig, Reinhold	Paxton	MA	US
Bogdanov, Gene	Manchester	CT	US
Obi, Aghogho	Worcester	MA	US

US-CL-CURRENT: [324/322](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMI	Drawings
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☐ 3. Document ID: US 6285189 B1

L67: Entry 3 of 5

File: USPT

Sep 4, 2001

US-PAT-NO: 6285189

DOCUMENT-IDENTIFIER: US 6285189 B1

TITLE: Millipede coils

DATE-ISSUED: September 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Wai Ha	San Jose	CA		

US-CL-CURRENT: 324/318; 324/321, 335/299, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMI	Drawings
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☐ 4. Document ID: US 5422578 A

L67: Entry 4 of 5

File: USPT

Jun 6, 1995

US-PAT-NO: 5422578

DOCUMENT-IDENTIFIER: US 5422578 A

TITLE: Magnetic resonance probehead

DATE-ISSUED: June 6, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hoegler; Miro	Karlsruhe			DE

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMI	Drawings
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☐ 5. Document ID: US 5144240 A

L67: Entry 5 of 5

File: USPT

Sep 1, 1992

US-PAT-NO: 5144240

DOCUMENT-IDENTIFIER: US 5144240 A

TITLE: NMR spectroscopy and imaging coil

DATE-ISSUED: September 1, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mehdizadeh; Mehrdad	Wilmington	DE		
Lampman; David A.	Lakewood	OH		
Orlando; Paul T.	Mentor	OH		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	DOC	Draw D
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Term	Documents
SYMMETRIC\$4	0
SYMMETRIC	117586
SYMMETRICA	506
SYMMETRICA A	1
SYMMETRICAAL	1
SYMMETRICAALY	1
SYMMETRICAB	2
SYMMETRICABY	115
SYMMETRICAD	3
SYMMETRICADLY	2
SYMMETRICADY	51
(L66 AND (SYMMETRIC\$4 OR SYMMETR\$4 OR MIRROR\$4)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

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☐ 1. Document ID: US 20050162168 A1

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L72: Entry 1 of 1

File: PGPB

Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050162168

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050162168 A1

TITLE: Multi-modal RF coil for magnetic resonance imaging

PUBLICATION-DATE: July 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ludwig, Reinhold	Paxton	MA	US
Bogdanov, Gene	Manchester	CT	US
Obi, Aghogho	Worcester	MA	US

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	TOC	Drawings
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Term	Documents
END3	1137
END3S	2
TERMINAT\$4	0
TERMINAT	11538
TERMINATA	33
TERMINATABLE	78
TERMINATABLY	1
TERMINATAC	1
TERMINATAD	2
TERMINATAE	2

TERMINATAED	2
(L71 AND ("END\$3" OR TERMINAT\$4)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 3229041 A

Using default format because multiple data bases are involved.

L69: Entry 1 of 1

File: USOC

Jan 11, 1966

US-PAT-NO: 3229041

DOCUMENT-IDENTIFIER: US 3229041 A

TITLE: Voice-frequency signal receivers as used in telephone systems

DATE-ISSUED: January 11, 1966

INVENTOR-NAME: BERNARD DRAKE; KEITH HICKS DONALD

US-CL-CURRENT: 379/351, 327/327, 379/283

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	PMC	Drawings
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Term	Documents
(68 NOT 66) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	1
(L68 NOT L66) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	1

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20050162168 A1

Using default format because multiple data bases are involved.

L80: Entry 1 of 3

File: PGPB

Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050162168

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050162168 A1

TITLE: Multi-modal RF coil for magnetic resonance imaging

PUBLICATION-DATE: July 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ludwig, Reinhold	Paxton	MA	US
Bogdanov, Gene	Manchester	CT	US
Obi, Aghogho	Worcester	MA	US

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMC	Drawings
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☐ 2. Document ID: US 20050033154 A1

L80: Entry 2 of 3

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050033154

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050033154 A1

TITLE: Methods for measurement of magnetic resonance signal perturbations

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
deCharms, Richard Christopher	Montara	CA	US

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMC	Drawings
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☐ 3. Document ID: US 6175237 B1

L80: Entry 3 of 3

File: USPT

Jan 16, 2001

US-PAT-NO: 6175237

DOCUMENT-IDENTIFIER: US 6175237 B1

TITLE: Center-fed paralleled coils for MRI

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F. David	Columbia	SC		
Entzminger, Jr.; George	Columbia	SC		

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Info	Drawings
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Term	Documents
BASE	3887024
BASIS	1231126
BASES	425006
RING	2381923
RINGS	667692
LOOP	867722
LOOPS	273594
WINDING	704371
WINDINGS	239666
COIL	1270942
COILS	421586
(L79 AND ((BASE OR RING OR LOOP OR WINDING OR COIL OR ANNULUS OR ANNULAR\$2 OR BOTTOM OR SUPPORT) WITH (SEGMENT\$4 OR PORTION OR SECTION\$4 OR DIVISION))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3

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File: PGPB

Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050162168

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INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ludwig, Reinhold	Paxton	MA	US
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US-CL-CURRENT: 324/322; 324/318

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